

Project Operating Plan – SLAC – Acceleration of Site Cleanup

SLAC - Acceleration of Site Cleanup Project Operating Plan

BACKGROUND

Recovery Act Project:	Stanford Linear Accelerator Center (SLAC) - Acceleration of Site Cleanup
TAFS:	89-09/10-0335
Project Identification Code:	2002240
Recovery Act Bill Reference:	PL111-5 Title IV- Energy and Water Development, Non-Defense Environmental Cleanup (H.R. 1-25)
Project Cost:	\$14,300,000
Budget Authority:	05949, FE.01.17.00.0
Program Office:	Environmental Management (EM)
Recovery Program Plan:	EM Non-Defense
Management Office:	Office of Environmental Management, Headquarters Office of Small Sites Completion, Richard Schassburger, Acting Director, richard.schassburger@emcbc.doe.gov SLAC – Federal Project Director Kevin Bazzell, 650-926-2513, kevin.bazzell@emcbc.doe.gov

LEADS

Implementation:	Small Sites/Oakland Projects Office
Breakthrough:	N/A
Laboratory:	N/A

I. SUMMARY & OBJECTIVES

Summary: The Environmental Management Program has the responsibility to cleanup the accessible legacy contamination at the SLAC National Accelerator Laboratory located at Stanford University (SU) in Menlo Park, California. This Recovery Act project will allow DOE to meet ongoing obligations as defined in the DOE lease agreement with SU, comply with the California Regional Water Quality Control Board site cleanup requirement Order and achieve project completion. This will accelerate the completion of this cleanup by one year with an estimated savings of approximately two million dollars by elimination of one year of Operations & Maintenance.

The SLAC Recovery work scope includes all remaining soil excavation, transportation, disposal, confirmation, and restoration work at 18 discrete locations around the laboratory (approximately 23,000 banked cubic yards), and remaining West SLAC Campus Area/ IR-8 8 Operable Unit remedial investigation field activities; the associated project management and other general and administrative costs; and a revised strategy to help streamline the development, review and approval process of regulatory documents.

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None of the waste products are radioactive and all will be disposed of in appropriately licensed landfills.

This Recovery Act work ties to the following DOE and EM Strategic Goals and Themes:

- DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.
- DOE Strategic Goal 5 – Management and Excellence – Enabling the Department's mission through sound management and business practices.
- EM Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.

Work Scope Changes: Additional soil excavation related scope was added to over half of the ARRA project cleanup areas including the Artificial Ridge, IR-8 Drainage Channel, IR-8 Fill Area, Building 24/34 Area, Sector 16 Storage Area Drainage Channel, etc. Additionally, the IR-6 Drainage Channel removal action was included. Implementation of necessary long-term groundwater remediation remedies and the development of the West SLAC Campus Area/IR-8 Operable Unit Feasibility Study and Remedial Action Plan scope have been removed from the ARRA project.

Buy Back Work Scope: Based on the potential availability of funds from unused management reserve and contingency funds and from cost efficiencies in executing the planned projects, additional candidate projects have been identified should funding become available.

If ARRA funding remains upon the completion of the removal action work, these additional funds will be used for completion and operation of Groundwater Treatment systems and to help accelerate CERCLA document preparation at the Groundwater VOC, Research Yard and/or West SLAC Operable Units. Due to increased soil volumes and regulatory issues, no funding is expected to be available.

Public Benefits: This work will result in the acceleration of the excavation, transportation and disposal of contaminated soil at 18 discrete sites (approximately 10 acres overall). Separate from the specific ARRA scope, but undertaken as a concomitant goal resulting from the ARRA funding is accelerated completion of the overall EM SLAC project, now targeted for September, 2011. An accelerated completion of the project is expected to reduce the overall project costs by an estimated two million dollars.

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II. COST & SCHEDULE

Budget:

Table 1: Budget Implementation Monthly & Yearly Obligations (\$M)

The Project funding is subject to re-apportionment and will be finalized by 9/30/2010; the Project Operating Plan will then be reissued with an obligations table.

Table 2: Budget Implementation Monthly & Yearly Expenditures (\$M)

The Project funding is subject to re-apportionment and will be finalized by 9/30/2010; the Project Operating Plan will then be reissued with a costs table.

Funds Returned and Offsetting Collections – None

Table 3: Funds Returned and Offsetting Collections (\$M)

Not applicable

Indirect Costs

There is no planned Recovery Act indirect cost (M&O) anticipated at this time.

Changes to Baseline Budget

Table 4: Changes to Baseline Budgets (\$M)

Not applicable

Milestones:

Weekly/Monthly Milestones	
Complete preparation of Unpriced ID/IQ Task Order modification	6/1/2009
Acceptance of Unpriced ID/IQ Task Order Modification	6/9/2009
CPE conducts recruiting job fair, interviews, and make offers	6/15/2009
Complete OSHA training, CPE required training and badging for new hires and subcontractors.	6/22/2009
Conduct additional interviews for staff needs, and skills mix	6/29/2009
Conduct Readiness Assessment and Safety Evaluation	7/6/2009
Complete Data Validation and Transfer	J-09
Complete Readiness Review – Artificial Ridge	A-09
Complete Readiness Review – Bldg 24 & 34, Sector 16, Clean Landfill	S-09
Complete Readiness Review at Bone-yard Phase 1	O-09

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Complete Readiness Review – Lower Salvage Yard	N-09
Bone-yard Phase 1 Excavation and Confirmation Sampling Complete	D-09
Complete Readiness Review – Sector 16 Storage Area Drainage	F-10
Complete Readiness Review – Klystron Gallery VVS	M-10
Complete W SLAC/ IR-8 RI and Remediation Activities	A-10
Complete Acetylene Tank Removal	M-10
Complete 3 Soil Removal Actions	J-10
Complete Contaminated Soil Removal at Sector 16 SRA DCS	J-10
Complete Contaminated Soil Removal at Bone-yard Phase 1	A-10
Complete Contaminated Soil Removal at Klystron Gallery VVS	O-10
Complete 3 Additional Soil Removal Actions	N-10
Complete Readiness Review – Upper Salvage Yard	D-10
Complete Contaminated Soil Removal at the Lower Salvage Yard	J-11
Complete Contaminated Soil Removal at the Upper Salvage Yard	F-11
Complete Readiness Review – IR-8	M-11
Complete Data Management and Support	A-11
Complete Final 4 Soil Removal Actions	M-11
Complete Records Management by ID/IQ	J-11
ID/IQ task order deliverables accepted, contract demobilized	J-11
Complete ARRA Project	S-11

NEPA Compliance: The scope of work is being undertaken pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act; separate NEPA reviews are not required. The NEPA Compliance Officer will monitor implementation and , as necessary, determine whether future NEPA review is required.

Table 5: Delivery Schedule for Capital Asset Projects: This Project has been designated as an Operations Project however the following dates apply.

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List	Not Applicable	
Develop Parametric Performance Baseline (Individual Projects)	December 2007	Initial baseline was submitted for DOE review and the IPR
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)	March 2008 – September 2008	Onsite review started in March 2008 with recommendation for certification of the near-term performance baselines in September 2008.
Approve Performance Baseline	January 2009	
Approve Start of Construction	January 2009	
Approve Project Completion	September 2011	Projected completion date based on successful ARRA acceleration.

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NOTES:

There is a risk that the development, review and approval process for required regulatory documents could take longer than planned. We are working with all parties involved in the process to help expedite the process where possible. There is also a risk that the required soil remediation and groundwater remedial remedies may increase once the applicable regulatory documents are approved. Both risks may result in cost and/or schedule delays to the overall project which could impact the ARRA goal of project completion by September 2011. Significant coordination and planning is ongoing between contractors and the Department to help mitigate these risks.

III. PERFORMANCE

Performance Measures:

Table 6: Project Performance Targets

Recovery Act Project Identification Code	2002240
Linkage To S-1 Priorities	Nuclear Security and Legacy
Linkage to Current Program Goal (if applicable)	<p>DOE Strategic Goal 4 –Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.</p> <p>DOE Strategic Goal 5 – Management and Excellence – Enabling the Department’s mission through sound management and business practices.</p> <p>EM Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.</p>

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ARRA Overall Performance Measure	Complete Legacy Cleanup at SLAC
First Year Performance Target	
Q1 - Project-Level Quarterly Performance Milestone(s)	NA
Q2 - Project-Level Quarterly Performance Milestone(s)	NA
Q3 - Project-Level Quarterly Performance Milestone(s)	Commence West SLAC removal and Remedial Investigation field work 06/2009
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete Readiness Reviews at four removal sites
Second Year Performance Target	
Q1 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at two sites
Q2 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at one additional site
Q3 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at one additional site
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at two additional sites
Third Year Performance Target	
Q1 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at three additional sites
Q2 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at four additional sites
Q3 - Project-Level Quarterly Performance Milestone(s)	Complete soil removal and restoration at three additional sites
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete ARRA Project – All Soil Removals Complete.

National Strategic Benefits

Table 7: National Strategic Benefits

1. Carbon Emission Reductions: N/A
2. Oil Consumption Reductions: N/A

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NOTES : The same amount of work (and associated carbon emissions and oil consumption) will be done with the Recovery Act funds as was originally planned but it will be completed sooner. Therefore there is no change in mass emissions or consumption attributable to this project.

IV. MANAGEMENT

Secretarial-level Items

Intended Results and Linkage to Secretary's Priorities

Table 8: Secretary's Priorities

Secretary's Priorities	Project Impacts (Qualitative)	Project Impacts (Quantitative)
Science and Discovery		
Clean, Secure Energy		
Economic Prosperity		
National Security and Legacy	Complete soil legacy waste remediation	Complete remediation of at least 18 contaminated soil sites; save ~\$2 M in anticipated baseline operating costs in FY 2012 by completing project by FY11.
Climate Change		

Collaboration and Coordination

- The project is conducted under regulatory order of the California Regional Water Quality Control Board and includes a stakeholder core team representing the landowner and community interests.
- The project requires direct coordination with the Office of Science since the SLAC National Accelerator Laboratory is an operating Science facility and the EM work must be completed in conjunction with their operations.
- The project relies on the SLAC M&O contractor to provide infrastructure, maintenance and operation support to the legacy cleanup activities.
- The contractor and the Department must coordinate activities with Stanford University as the operator of the laboratory and land owner. Some of the required soil remediation is located inside the Stanford University property but outside of the SLAC boundaries.
- Scientific research at the laboratory involves international collaboration in many areas and completion of this project will enable that work to continue.

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Federal Infrastructure Investments

The project is focused on reducing the agency's legacy environmental impact at the Laboratory.

Line Management

The existing Project Controls process (DOE O413.3-A compliant) will be used to oversee the project.

Needs from Staff Offices

1) Human Capital

Table 9: Information on Hiring Under the Recovery Act

# & Type of Positions (Title, Series and Grade)	Location (HQ or Field – w/location)	Federal or Contractor	Timeframe (1-6mos; 6+mos; other; specify date needed if possible)
N/A- No additional Federal staff positions are anticipated to be needed for this project. There is no use of temporary and TERM appointments, details from other Federal agencies, M&O contractors, use of IPA assignments from state/local governments and laboratories, student hires, excepted service (EJ) authority, SES limited TERM, non-competitive authorities anticipated to be needed for this project.			

2) Procurement

Table 10: Procurement Plans

Activity	Type	New/Exist (N/E)	Changes (E), Needs (N)	Status	Expected Complete	Issues (Y/N)
Incremental Funding	Contract	E	Accelerated funding	Plan	12/2009 & 6/2010	N